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(54) STABILIZER FOR ORGANISM CATALYST

(57) Abstract:

PURPOSE: To enable prevention of deterioration of organism catalyst during reaction and preservation thereof and to suppress growth of microorganism during preservation of organism catalyst, by adding a given amount of heavy water to an enzyme, cell, etc. to produce a stabilizer for organism catalyst.

CONSTITUTION: 30W100%, more preferably about

50W100% is added to an enzyme, cell, etc. to give a stabilizer for organism catalyst. Heavy water is directly used as it is or blended with a solvent and an additive and can be used. The stabilizer for organism catalyst can be used as it is in a stable condition of the organism catalyst or can be used as a reaction solution for the organism catalyst by blending the stabilizer with a solution containing a substrate of the organism catalyst so as to make $\geq 30\%$ heavy water concentration or by mixing the stabilizer with a substrate and a pH buffering solution, etc.

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